

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A signal output method comprising:
providing a write permission signal including a repetition of a write enable interval and a pause interval;
providing a write data signal to be output during the write enable interval;
outputting a write signal including the write permission signal and the write data signal; and
writing information to an optical information recording medium by using the write signal,
wherein T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,
 T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,
 T denotes a reference period, and
wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

2. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$0.4T \geq T_{fmax} - T_{fmin} \geq 0.06T.$$

3. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$T_{fmax} - T_{fmin} = 0.25T.$$

4. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula:

$$T_{fmax} - T_{fmin} = 0.15T.$$

5. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formulae:

$$1.8T \geq T_{fmax} \geq 0.5T$$

$$1.8T \geq T_{fmin} \geq 0.5T.$$

6. (original): A signal output method according to claim 1, wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formulae:

$$1.5T \geq T_{fmax} \geq 0.7T$$

$$1.5T \geq T_{fmin} \geq 0.7T.$$

7. (original): A signal output method according to claim 1, wherein when T_{mp} denotes an output interval of each write data signal except the first and the last write data signals

among the write data signals, the write signal is outputted so that Tmp and T satisfy the following formula:

$$0.84T \geq Tmp \geq 0.4T.$$

8. (original): A signal output method according to claim 1, wherein when Tmp denotes an output interval of each write data signal except the first and the last write data signals among the write data signals, the write signal is outputted so that Tmp and T satisfy the following formula:

$$0.78T \geq Tmp \geq 0.6T.$$

9. (original): A signal output method comprising:
providing a write permission signal including a repetition of a write enable interval and a pause interval;
providing a write data signal to be output during the write enable interval;
outputting a write signal including the write permission signal and the write data signal; and
writing information to an optical information recording medium by using the write signal,
wherein Tmax denotes an output interval of a last write data signal among write data signals corresponding to a write permission signal immediately preceding a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,

Tlmin denotes an output interval of the last write data signal among the write data signals corresponding to a write permission signal immediately preceding the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,

T denotes a reference period, and

wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula (2):

Formula (2): $Tlmin - Tlmax \geq 0.01T$.

10. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$0.4T \geq Tlmin - Tlmax \geq 0.06T$.

11. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$Tlmin - Tlmax = 0.25T$.

12. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formula:

$Tlmin - Tlmax = 0.15T$.

13. (original): A signal output method according to claim 9, wherein the write signal is outputted so that Tlmax, Tlmin and T satisfy the following formulae:

$0.9T \geq Tlmax \geq 0.2T$

$0.9T \geq Tlmin \geq 0.2T$.

14. (original): A signal output method according to claim 9, wherein the write signal is outputted so that T_{lmax} , T_{lmin} and T satisfy the following formulae:

$$0.7T \geq T_{lmax} \geq 0.3T$$

$$0.7T \geq T_{lmin} \geq 0.3T.$$

15. (original): A signal output method according to claim 9, wherein when T_{mp} denotes an output interval of each write data signal except first and last write data signals among write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.84T \geq T_{mp} \geq 0.4T.$$

16. (original): A signal output method according to claim 9, wherein when T_{mp} denotes an output interval of each write data signal except first and last write data signals among write data signals, the write signal is outputted so that T_{mp} and T satisfy the following formula:

$$0.78T \geq T_{mp} \geq 0.6T.$$

17. (original): A signal output method according to claim 9, wherein T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in the case in which the pause interval of the write signal is the maximum,

T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in the case in which the pause interval of the write signal is the minimum, and

wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

18. (original): An optical information recording medium having information recorded thereon by using a signal output method, the signal output method comprising:
- providing a write permission signal including a repetition of a write enable interval and a pause interval;
 - providing a write data signal to be output during the write enable interval;
 - outputting a write signal including the write permission signal and the write data signal; and
 - writing information to an optical information recording medium by using the write signal,
- wherein T_{fmax} denotes an output interval of a first write data signal among write data signals corresponding to a write permission signal immediately subsequent to a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,
- T_{fmin} denotes an output interval of a first write data signal among the write data signals corresponding to a write permission signal immediately subsequent to the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,
- T denotes a reference period, and
- wherein the write signal is outputted so that T_{fmax} , T_{fmin} and T satisfy the following formula (1):

Formula (1): $T_{fmax} - T_{fmin} \geq 0.01T$.

19. (original): An optical information recording medium according to claim 18, wherein information can be recorded thereon by using a laser beam having a wavelength in the range of 350 nm to 500 nm.

20. (original): An optical information recording medium according to claim 18, wherein the optical information recording medium is a write once type and a dye type.

21. (original): An optical information recording medium having information recorded thereon by using a signal output method, the signal output method comprising:
providing a write permission signal including a repetition of a write enable interval and a pause interval;
providing a write data signal to be output during the write enable interval;
outputting a write signal including the write permission signal and the write data signal; and
writing information to an optical information recording medium by using the write signal,

wherein T_{lmax} denotes an output interval of a last write data signal among write data signals corresponding to a write permission signal immediately preceding a pause interval of the write signal in a case in which the pause interval of the write signal is a maximum,

T_{lmin} denotes an output interval of the last write data signal among the write data signals corresponding to a write permission signal immediately preceding the pause interval of the write signal in a case in which the pause interval of the write signal is a minimum,

T denotes a reference period, and

wherein the write signal is outputted so that T_{\max} , T_{\min} and T satisfy the following formula (2):

Formula (2): $T_{\min} - T_{\max} \geq 0.01T$.

22. (original): An optical information recording medium according to claim 21, wherein information can be recorded thereon by using a laser beam having a wavelength in the range of 350 nm to 500 nm.

23. (original): An optical information recording medium according to claim 21, wherein the optical information recording medium is a write once type and a dye type.

24. (new): A signal output method according to claim 1, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and
modulating at least one of $T_{f_{\max}}$ and $T_{f_{\min}}$ according to the set recording strategy, wherein the pause interval is set by the set recording strategy.

25. (new): A signal output method according to claim 9, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and
modulating at least one of $T_{l_{\max}}$ and $T_{l_{\min}}$ according to the set recording strategy, wherein the pause interval is set by the set recording strategy.

26. (new): A signal output method according to claim 17, further comprising:
setting one of a plurality of recording strategies according to a recording speed magnification; and

modulating at least one of Tf_{\max} and Tf_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.

27. (new): An optical information recording medium according to claim 18, wherein
the signal output method further comprises:

setting one of a plurality of recording strategies according to a recording speed
magnification; and

modulating at least one of Tf_{\max} and Tf_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.

28. (new): An optical information recording medium according to claim 21, wherein
the signal output method further comprises:

setting one of a plurality of recording strategies according to a recording speed
magnification; and

modulating at least one of Tl_{\max} and Tl_{\min} according to the set recording strategy,
wherein the pause interval is set by the set recording strategy.